

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/588, 298  
Source: IFWP  
Date Processed by STIC: 6/17/2006

# ***ENTERED***

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/588, 298

CRF Edit Date: 8/17/2006  
Edited by: DA

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



IFWP

## RAW SEQUENCE LISTING

DATE: 08/17/2006

PATENT APPLICATION: US/10/588,298

TIME: 16:15:46

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08172006\J588298.raw

```

3 <110> APPLICANT: Duffner, Fiona
4 Hoff, Tine
5 Lundquist, Henrik
6 Spendler, Tina
8 <120> TITLE OF INVENTION: Xylanase
10 <130> FILE REFERENCE: 10582-204-US
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/588,298
C--> 12 <141> CURRENT FILING DATE: 2006-08-03
12 <160> NUMBER OF SEQ ID NOS: 8
14 <170> SOFTWARE: PatentIn version 3.3
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 630
18 <212> TYPE: DNA
19 <213> ORGANISM: Paenibacillus pabuli
22 <220> FEATURE:
23 <221> NAME/KEY: sig_peptide
24 <222> LOCATION: (1)..(84)
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: (1)..(630)
30 <220> FEATURE:
31 <221> NAME/KEY: mat_peptide
32 <222> LOCATION: (85)..(630)
34 <400> SEQUENCE: 1
35 atg ttt aaa ttc gga aaa aaa ttg tta act gtt gtc ctt gcc gct tcc      48
36 Met Phe Lys Phe Gly Lys Lys Leu Leu Thr Val Val Leu Ala Ala Ser
37          -25          -20          -15
39 atg agt ttt ggt gta ttc gcc gct acg aca ggt gct aca gat tac tgg      96
40 Met Ser Phe Gly Val Phe Ala Ala Thr Thr Gly Ala Thr Asp Tyr Trp
41          -10          -5          -1  1
43 cag aac tgg aca gat ggc ggg ggt act gtt aat gcc gtg aac ggt tcg      144
44 Gln Asn Trp Thr Asp Gly Gly Gly Thr Val Asn Ala Val Asn Gly Ser
45 5          10          15          20
47 gga gga aac tac agt gta aac tgg cag aac acg ggg aac ttt gtt gtc      192
48 Gly Gly Asn Tyr Ser Val Asn Trp Gln Asn Thr Gly Asn Phe Val Val
49          25          30          35
51 ggt aaa ggg tgg act tac ggt aca cct aat cgt gta gtg aat tac aat      240
52 Gly Lys Gly Trp Thr Tyr Gly Thr Pro Asn Arg Val Val Asn Tyr Asn
53          40          45          50
55 gcg ggt gta ttc tct cca tcc ggc aac gga tat ttg acg ttt tac ggg      288
56 Ala Gly Val Phe Ser Pro Ser Gly Asn Gly Tyr Leu Thr Phe Tyr Gly
57          55          60          65
59 tgg aca cgg aat gca ctt att gaa tac tac gtg gtg gat aac tgg gga      336

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```

60 Trp Thr Arg Asn Ala Leu Ile Glu Tyr Tyr Val Val Asp Asn Trp Gly
61      70      75      80
63 aca tac cgg cca acc gga aca tac aaa ggc aca gta acc agt gat ggt      384
64 Thr Tyr Arg Pro Thr Gly Thr Tyr Lys Gly Thr Val Thr Ser Asp Gly
65 85      90      95      100
67 ggc aca tat gac atc tat act acg atg aga tac aat cag cca tcc att      432
68 Gly Thr Tyr Asp Ile Tyr Thr Thr Met Arg Tyr Asn Gln Pro Ser Ile
69      105      110      115
71 gac ggg tat tca aca ttc ccg caa tac tgg agt gtt aga caa tcc aaa      480
72 Asp Gly Tyr Ser Thr Phe Pro Gln Tyr Trp Ser Val Arg Gln Ser Lys
73      120      125      130
75 cgt cca atc ggt gta aat tcc caa att acg ttc cag aat cac gta aat      528
76 Arg Pro Ile Gly Val Asn Ser Gln Ile Thr Phe Gln Asn His Val Asn
77      135      140      145
79 gcg tgg gcg agc aag ggc atg tac ttg ggt aac agc tgg tcc tat caa      576
80 Ala Trp Ala Ser Lys Gly Met Tyr Leu Gly Asn Ser Trp Ser Tyr Gln
81      150      155      160
83 gtg atg gcc acc gaa gga tat caa agt agc ggt agt tcg aat gtg act      624
84 Val Met Ala Thr Glu Gly Tyr Gln Ser Ser Gly Ser Ser Asn Val Thr
85 165      170      175      180
87 gtt tgg      630
88 Val Trp
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 210
94 <212> TYPE: PRT
95 <213> ORGANISM: Paenibacillus pabuli
97 <400> SEQUENCE: 2
99 Met Phe Lys Phe Gly Lys Lys Leu Leu Thr Val Val Leu Ala Ala Ser
100      -25      -20      -15
103 Met Ser Phe Gly Val Phe Ala Ala Thr Thr Gly Ala Thr Asp Tyr Trp
104      -10      -5      -1 1
107 Gln Asn Trp Thr Asp Gly Gly Gly Thr Val Asn Ala Val Asn Gly Ser
108 5      10      15      20
111 Gly Gly Asn Tyr Ser Val Asn Trp Gln Asn Thr Gly Asn Phe Val Val
112      25      30      35
115 Gly Lys Gly Trp Thr Tyr Gly Thr Pro Asn Arg Val Val Asn Tyr Asn
116      40      45      50
119 Ala Gly Val Phe Ser Pro Ser Gly Asn Gly Tyr Leu Thr Phe Tyr Gly
120      55      60      65
123 Trp Thr Arg Asn Ala Leu Ile Glu Tyr Tyr Val Val Asp Asn Trp Gly
124      70      75      80
127 Thr Tyr Arg Pro Thr Gly Thr Tyr Lys Gly Thr Val Thr Ser Asp Gly
128 85      90      95      100
131 Gly Thr Tyr Asp Ile Tyr Thr Thr Met Arg Tyr Asn Gln Pro Ser Ile
132      105      110      115
135 Asp Gly Tyr Ser Thr Phe Pro Gln Tyr Trp Ser Val Arg Gln Ser Lys
136      120      125      130
139 Arg Pro Ile Gly Val Asn Ser Gln Ile Thr Phe Gln Asn His Val Asn
140      135      140      145

```

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PATENT APPLICATION: US/10/588,298

TIME: 16:15:46

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08172006\J588298.raw

```

143 Ala Trp Ala Ser Lys Gly Met Tyr Leu Gly Asn Ser Trp Ser Tyr Gln
144      150                      155                      160
147 Val Met Ala Thr Glu Gly Tyr Gln Ser Ser Gly Ser Ser Asn Val Thr
148 165                      170                      175                      180
151 Val Trp
155 <210> SEQ ID NO: 3
156 <211> LENGTH: 48
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Primer oth62
163 <400> SEQUENCE: 3
164 gttcatcgat cgcacgggct acagattact ggcagaactg gacagatg      48
167 <210> SEQ ID NO: 4
168 <211> LENGTH: 49
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Primer oth63
175 <400> SEQUENCE: 4
176 ggagcggatt gaacatgcga ttaccaaaca gtcacattcg aactaccgc      49
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 21
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Primer 260558
187 <400> SEQUENCE: 5
188 gagtatcgcc agtaaggggc g      21
191 <210> SEQ ID NO: 6
192 <211> LENGTH: 20
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Primer UpN 1361
199 <400> SEQUENCE: 6
200 agccgatgcg atcgatgaac      20
203 <210> SEQ ID NO: 7
204 <211> LENGTH: 23
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Primer 260559
211 <400> SEQUENCE: 7
212 gcagccctaa aatcgcataa agc      23
215 <210> SEQ ID NO: 8
216 <211> LENGTH: 23
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial

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RAW SEQUENCE LISTING

DATE: 08/17/2006

PATENT APPLICATION: US/10/588,298

TIME: 16:15:46

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08172006\J588298.raw

220 <220> FEATURE:

221 <223> OTHER INFORMATION: Primer DwC 1361

223 <400> SEQUENCE: 8

224 taatcgcatg ttcaatccgc tcc

23

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/17/2006  
PATENT APPLICATION:    US/10/588,298      TIME: 16:15:47

Input Set : A:\pto.da.txt  
Output Set: N:\CRF4\08172006\J588298.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8

**VERIFICATION SUMMARY**

DATE: 08/17/2006

PATENT APPLICATION: US/10/588,298

TIME: 16:15:47

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08172006\J588298.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date



**Raw Sequence Listing before editing,  
for reference only**



IFWP

## RAW SEQUENCE LISTING

DATE: 08/10/2006

PATENT APPLICATION: US/10/588,298

TIME: 09:51:39

Input Set : A:\01-SQ Listing-15 Aug 2006.txt

Output Set: N:\CRF4\08102006\J588298.raw

3 <110> APPLICANT: Duffner, Fiona  
4 Hoff, Tine  
5 Lundquist, Henrik  
6 Spendler, Tina  
8 <120> TITLE OF INVENTION: Xylanase  
10 <130> FILE REFERENCE: 10582-204-US  
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/588,298  
C--> 12 <141> CURRENT FILING DATE: 2006-08-03  
12 <160> NUMBER OF SEQ ID NOS: 8  
14 <170> SOFTWARE: PatentIn version 3.3

Does Not Comply  
Corrected Diskette Needed  
(pg-1)

## ERRORED SEQUENCES

215 <210> SEQ ID NO: 8  
216 <211> LENGTH: 23  
217 <212> TYPE: DNA  
218 <213> ORGANISM: Artificial  
220 <220> FEATURE:  
221 <223> OTHER INFORMATION: Primer DwC 1361  
223 <400> SEQUENCE: 8  
224 taatcgcatg ttcaatccgc tcc  
E--> 230 4

23

deleted

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/10/2006  
PATENT APPLICATION:    US/10/588,298      TIME: 09:51:40

Input Set : A:\01-SQ Listing-15 Aug 2006.txt  
Output Set: N:\CRF4\08102006\J588298.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8

VERIFICATION SUMMARY

DATE: 08/10/2006

PATENT APPLICATION: US/10/588,298

TIME: 09:51:40

Input Set : A:\01-SQ Listing-15 Aug 2006.txt

Output Set: N:\CRF4\08102006\J588298.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:230 M:254 E: No. of Bases conflict, this line has no nucleotides.